

***TITLE: Mechanical device used to make different exercises on the ground.***

***BACKGROUND OF THE INVENTION:***

***1) Field of invention:***

The present invention relates to a mechanical device allowing to make different exercises on the ground, and adjustable according to user's needs.

***2) Description of the related art:***

At the present time some devices are sold on the market but they are really different from my disclosure.

***BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S):***

Figure 1 represents a perspective view of the device allowing to make different exercises on the ground.

Figure 2 represents a top plan view of the vertical and tubular bar curved at its end, including a rotary part and a small pulley by which the steel wire is drawn in several directions without friction.

Figure 3 represents a plan view of the system allowing the adjustment of the vertical bar to the desired position.

Figure 4 represents a top perspective view inwardly of system for the device.

Figure 5 represents a top perspective view inwardly of system for the device showing the spring in a different position.

Figure 6 represents a plan view of system allowing to adjust the desired position according to user's needs.

Figure 7 represents a perspective view of the main large pulley fixed to a transversal bar with the frame of the device.

Figure 8 represents a perspective view of the main large pulley allowing to steel wire to turn two times around of the pulley.

Figures 9a, b, c and d, represent the side elevational views of the device showing the user in different positions.

***DETAILED DESCRIPTION OF THE INVENTION:***

As shown in figure 1, a mechanical device allowing to make different exercises on the ground includes a rigid frame (10) covered with a motionless cushion (16) on which the user can be installed comfortably, a vertical bar (11) curved at its end and adjustable at different positions, and a belt (17) is used to join the arm wrist or leg ankle to steel wire (5). As shown in figure 2, the curved part of the vertical bar (11) includes a rotary part (12) wherein a pulley (13) allows to steel wire (5) to pass without friction inside of the pulley anchored (13) in the rotary part (12) wherein turns freely by allowing to steel wire (5) to be drawn in different directions. As shown in figure 3, the small holes (19) allow to change the adjustment of the vertical bar (11) by blocking the vertical bar (11) with a pin metal (14) wherein is inserted in the hole of the vertical bar (11) into the desired position. As show in figure 4, inwardly the device system includes a spring (6) wherein allows to steel wire (5) to be tensioned, the spring (6) is fixed to a perforated frame part (3) in a

semi-circle of device by a stem (7) welded to spring (6) and joined to a movable part (8) by a pin metal (9) wherein allows the adjustment of tensioned spring (6), the spring end (6) is fixed to the bar (1) wherein is anchored into the frame of the device so as to carry out a rotation parallel with the floor, whereas the other end of the bar (1) is fixed to a steel wire (5) making two turns around of the main large pulley (4) wherein a transversal bar (18) is anchored to the frame of the device, and the steel wire (5) is directed towards two other small pulleys (2) before to pass inside of the vertical bar (11). As shown in figure 5, inwardly the device system includes a spring (6) showing a different position such that shown in figure 4. As shown in figure 6, a perforated frame part (3) in a semi-circle allows the adjustment of tensioned spring (6) welded to a stem (7) having legs and joined to a movable part (8) to the perforated frame part (3) of the device by a pin metal (9) wherein allows the adjustment of tensioned spring (6). As shown in figure 7, a main large pulley (4) is fixed at a transversal bar (18) to the frame of the device. As shown in figure 8, a main large pulley (4) allows to steel wire (5) to make two turns around of the main pulley (4) by giving a pulley arch effect. As shown in figures 9a, b, c and d, the user is installed comfortably onto the device in different positions.